

Recovery Plan Action Status

Plan Name: Revised Recovery Plan for MacFarlane's Four-o'clock (Mirabilis macfarlanei)

Plan Status: Final Revision 1

Plan Date: 30-Jun-00

Lead Agency: USFWS

Lead Office: Idaho Fish And Wildlife Office

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378-3243)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
MacFarlane's four-o'clock (Mirabilis macfarlanei)	1	1.1.1	BLM should update existing management plans, and develop management plans for MIMA populations not included in existing management plans..	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	The ROD for the Cottonwood RMP was issued in December 2009. Although they are currently working on a Supplemental EIS to address bighorn sheep issues on four grazing allotments, the rest of the management direction in the RMP has been approved by the State Director and is in effect. Still need to determine if individual management plans for MIMA populations are necessary.
MacFarlane's four-o'clock (Mirabilis macfarlanei)	1	1.1.2	Forest Service should develop and implement management plans	Planned	Prior to FY 1995		U.S. Forest Service	Work type not yet selected	Labor type not yet selected	The Forest Plan Revision is still in progress; however, because the Comprehensive Management Plan for Hells Canyon was recently completed, the Hells Canyon NRA (the area where MIMA occurs) will not be included in the Forest Plan revision.

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MacFarlane's four-o'clock (Mirabilis macfarlanei)	1	1.1.3.1	Effectively manage livestock grazing in MIMA habitat	Complete	Prior to FY 1995	FY 2008	U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Management: Habitat Maintenance and Manipulation, Management: Land Use	Contract	Informational brochures and posters were developed (by the Service with help from the FS and BLM) and distributed to private landowners (by the FS and BLM) in 2011. These outreach materials provide information on the potential conservation opportunities for MacFarlane's Four-o'clock on private land.
MacFarlane's four-o'clock (Mirabilis macfarlanei)	1	1.1.3.2	Coordinate with country agencies or local organizations that have responsibility for activities that could affect MIMA habitat.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	FS and BLM coordinating toad flax biocontrol. BLM is part of the Salmon River weed management area which may need coordination with IPC and Imnaha sites. BLM/FS will meet with county agencies at least annually to review planned activities.

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MacFarlane's four-o'clock (Mirabilis macfarlanei)	1	1.1.3.3	Implement weed control measures	Ongoing Current	FY 2007		U.S. Bureau of Land Management, U.S. Forest Service	Management: Habitat Maintenance and Manipulation	Contract	BLM weed control measures did not occur in 2011 due to scheduling conflicts. However, the Service provided BLM with \$19,125 in 2011 recovery funds to treat approximately 51 acres of MacFarlane's Four-o'clock habitat (45 in Long Gulch and 6 in Rhett Creek) within the Cottonwood Field Office, BLM in 2012 and 2013. In 2006, the FS release the biological control agent, Mecinus janthinusor (the 3-toed stem boring weevil) at two MacFarlane's sites (Pleasant Valley and Tryon Creek) to control the noxious weed Linaria dalmatica (Dalmation toadflax). In 2009, the FS determined that supplemental releases of the weevil were needed at Pleasant Valley (due to a fire in 2007). With funding partially provided by the Service (Oregon), 200 additional weevils were released in 2010. The FS conducted effectiveness monitoring annually. As of 2011, the biological agents were established at both sites with any associated 70% reduction of Dalmation toadflax at the Tyron site and 60% reduction at the Pleasant Valley site.

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MacFarlane's four-o'clock (Mirabilis macfarlanei)	1	1.1.3.4	Manage herbicide and pesticide use	Ongoing Current	FY 2007		County governments, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	FS does not spray within 100 yds, BLM sprays within populations within parameters of BO. BLM/FS will evaluate county spray programs annually.
MacFarlane's four-o'clock (Mirabilis macfarlanei)	1	1.1.3.5	Implement effective ORV use control measures	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	BLM/FS will maintain / monitor control measures annually.
MacFarlane's four-o'clock (Mirabilis macfarlanei)	1	1.1.3.6	Develop fire management plans for all sites containing MIMA populations on public lands	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Plans may be completed as part of tasks 1.1.1 and 1.1.2
MacFarlane's four-o'clock (Mirabilis macfarlanei)	1	1.1.3.7	Manage wildlife populations and associated activities to avoid impacts to MIMA and its essential habitat	Not Started			U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	This task will be coordinated with state fish and game agencies. BLM and FS do not manage wildlife, except T and E species, on lands that they manage. IDFG and ODFW responsible party. Native ungulates have declined in Salmon River basin.
MacFarlane's four-o'clock (Mirabilis macfarlanei)	2	1.2	Pursue special management designations for MIMA on public lands	Not Started			U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	May be completed as part of tasks 1.1.1 and 1.1.2
MacFarlane's four-o'clock (Mirabilis macfarlanei)	1	1.3	Protect MIMA habitat on private lands	Ongoing Current			Unknown, U.S. Fish and Wildlife Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	A private land brochure is currently being developed to distribute to private landowners to inform them of potential conservation opportunities on their private land for MacFarlane's Four o'clock. It is anticipated that this brochure will be distributed in spring of 2011.

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MacFarlane's four-o'clock (Mirabilis macfarlanei)	1	2.1	Monitor MIMA populations/sites annually	Ongoing Current	Prior to FY 1995		Oregon Department of Agriculture, Oregon Natural Heritage Program, Idaho Conservation Data Center, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Research: Population Surveys	Contract	A rangewide monitoring strategy was developed by Mancuso Botanical Services, with close coordination between the Forest Service (FS), Bureau of Land Management (BLM), and Fish and Wildlife Service (Service). This monitoring protocol is currently being used the the FS and BLM.
MacFarlane's four-o'clock (Mirabilis macfarlanei)	2	2.2	Conduct demographic monitoring	Discontinued	Prior to FY 1995		Oregon Department of Agriculture, Oregon Natural Heritage Program, Idaho Conservation Data Center, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Results found no readily discernable life history stages, and was therefore abandoned in 1995 (est.).
MacFarlane's four-o'clock (Mirabilis macfarlanei)	1	2.3	Monitor and evaluate MIMA response to fire	Not Started			Oregon Department of Agriculture, Oregon Natural Heritage Program, Idaho Conservation Data Center, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	This task will only be implemented if fire occurs in MIMA habitat
MacFarlane's four-o'clock (Mirabilis macfarlanei)	2	2.4	Obtain permission from private landowners to conduct monitoring for MIMA on private lands	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Private landowners	Work type not yet selected	Labor type not yet selected	BLM monitors at Giant's Nose, Slicker Bar, and John Day private sites. Additional opportunities will be pursued once the landowner brochure has been distributed in 2011.

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MacFarlane's four-o'clock (Mirabilis macfarlanei)	2	3.1	Determine population viability of MIMA	Obsolete			Oregon Department of Agriculture, Oregon Natural Heritage Program, Oregon State University, Idaho Conservation Data Center, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Complicated by lack of life history stages and clonal growth.
MacFarlane's four-o'clock (Mirabilis macfarlanei)	2	3.2	Conduct research on pollinators of MIMA	Not Started			Oregon Department of Agriculture, Oregon Natural Heritage Program, Oregon State University, Idaho Conservation Data Center, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
MacFarlane's four-o'clock (Mirabilis macfarlanei)	2	3.3	Conduct habitat enhancement studies	Not Started			Oregon Department of Agriculture, Oregon Natural Heritage Program, Oregon State University, Idaho Conservation Data Center, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
MacFarlane's four-o'clock (Mirabilis macfarlanei)	2	4.1	Conduct surveys on Federal lands where activities may affect MIMA habitat	Ongoing Current	FY 2007		U.S. Fish and Wildlife Service, U.S. Forest Service	Management: Population Monitoring	Contract, Internal Field Assistance	The FS conducted surveys on approximately 500 acres in Hell's Canyon. No new MacFarlane's Four-o'clock populations were located. Surveys in Hells Canyon have been conducted annually from 2007 through 2011 and were largely funded by the Oregon FWS (\$20,800 total)

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MacFarlane's four-o'clock (Mirabilis macfarlanei)	3	4.2	Obtain permission from private landowners to conduct surveys for MIMA on private lands	Not Started			Oregon Department of Agriculture, Oregon Natural Heritage Program, Idaho Conservation Data Center, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	This activity will be pursued once the landowner brochure has been distributed in 2011.
MacFarlane's four-o'clock (Mirabilis macfarlanei)	2	4.3	Protect newly discovered MIMA populations	Ongoing Not Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	No new MIMA population recently discovered.
MacFarlane's four-o'clock (Mirabilis macfarlanei)	2	5	Establish propagule banks, including a longterm seed storage facility for MIMA	Ongoing Current	FY 2007		Berry Botanic Garden, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	FS collecting seeds as part of introduction study. BLM collected all private and public parcels five years ago and all BLM parcels three years ago. Costs are for seed storage and seed collection.
MacFarlane's four-o'clock (Mirabilis macfarlanei)	3	6.1	Develop and implement a reintroduction plan for MIMA, if reintroduction is warranted	Ongoing Current	FY 2007		Oregon Department of Agriculture, Berry Botanic Garden, Oregon Natural Heritage Program, Idaho Conservation Data Center, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Research: Reintroduction	Contract	FS, FWS, and Berry Botanical Garden coordinating on this project in Oregon. In 2008 \$2500 provided to Berry Botanical Garden. Continued to fund in 2009 by OFO of 2,500. FS is currently trying to identify appropriate reintroduction sites.
MacFarlane's four-o'clock (Mirabilis macfarlanei)	2	6.2	Monitor MIMA population at Lucile Caves	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	Monitored by BLM ~ annually.
MacFarlane's four-o'clock (Mirabilis macfarlanei)	3	7	Validate and revise recovery objectives	Planned			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Management: General, Management: Planning	Internal Technical Assistance	A tech team has been established and will review the recovery objectives as needed. MIMA became a spotlight species in 2010. On June 13, 2011 the tech team met (via conference call) to discuss and finalize the rangewide monitoring protocol.